

## SEQUENCE LISTING

<110> Yeda Research & Development Company Limited at the  
Bio-Technology General Corp.

<120> Tumor Associated Antigen Peptides and Use of Same as  
Anti-Tumor Vaccines

<130> 453-A-PCT

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<150> 125608

<151> 1998-07-30

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<170> PatentIn Ver. 2.1

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Arg Leu Leu Ala Ala Leu Cys Gly Ala

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&lt;400&gt; 66

Lys Met Ala Arg Phe Ser Tyr Ser Val

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&lt;400&gt; 67

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Met Leu Ala Gly Ile Cys Leu Ser Ile

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## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IL 99/00417

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/12 C07K14/47 C07K14/705 C12N9/16 C12N9/64  
A61K38/17 A61K38/46 A61K38/47 C12N15/55 C12N15/57  
C12N5/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K C12N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 98 43084 A (UNIV LELAND STANFORD JUNIOR) 1 October 1998 (1998-10-01) claims; table 4	1, 5, 6, 20-22, 55
X	WO 94 20127 A (CYTEL CORP) 15 September 1994 (1994-09-15) table 25	1, 5, 6, 20-22, 55
X	DE 195 16 673 A (PECHER GABRIELE DR) 31 October 1996 (1996-10-31) claims; examples	1, 13, 20-22, 43-45
	--- -/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

30 December 1999

Date of mailing of the international search report

12/01/2000

Name and mailing address of the ISA

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Authorized officer

Fuhr, C

# INTERNATIONAL SEARCH REPORT

International: Application No

PCT/IL 99/00417

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97 08318 A (CORIXA CORP) 6 March 1997 (1997-03-06)  claims; examples ---	1,5, 20-22, 26,30, 31,34, 51-55
A	WO 95 04548 A (JENNER TECHNOLOGIES) 16 February 1995 (1995-02-16) page 7, line 17 - line 35; claims; examples ---	1,26,32, 37,38,42
P,A	DE 197 58 400 A (HANISCH FRANZ GEORG PROF DR ;MAX DELBRUECK CT FUER MOLEKULA (DE)) 1 July 1999 (1999-07-01) claims; table 1 ---	1,26,32, 37,38,42
X	WO 97 11715 A (AUSTIN RESEARCH INST ;SANDRIN MAURO SERGIO (AU); MCKENZIE IAN FARQ) 3 April 1997 (1997-04-03) claims; examples ---	1,11-13, 26-38, 46,51-55
X	WO 97 35021 A (US HEALTH ;ZAREMBA SAM (US); SCHLOM JEFFREY (US); TSANG KWONG YOK) 25 September 1997 (1997-09-25)  claims; examples; table 10 ---	1,5,20, 21, 26-38, 51-55
A	WO 95 19783 A (CELIS ESTEBAN ;GREY HOWARD M (US); CYTEL CORP (US); KUBO RALPH T ()) 27 July 1995 (1995-07-27) claims; examples ---	1,26
A	WEINSTEIN B: "CHEMISTRY AND BIOCHEMISTRY OF AMINO ACIDS, PEPTIDES AND PROTEINS, PASSAGE" CHEMISTRY AND BIOCHEMISTRY OF AMINO ACIDS, PEPTIDES, AND PROTEINS,XX,XX, vol. 7, page 266-357 XP002032461 the whole document -----	23-25

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL 99/00417

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Remark: Although claims 37-38 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☒ Claims Nos.: 43-45  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

International Application No. PCT/IL 99 00417

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 43-45

Present claims 23-25 relate to an extremely large number of possible compounds/products. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds/products claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds/products prepared in the examples and closely related homologous compounds like those mentioned in the sequence listing.

Present claims 43-45 relate to an extremely large number of possible compounds/products/apparatus/methods. In fact, the claims contain so many options, variables, possible permutations and provisos that a lack of clarity (and/or conciseness) within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, no search has been carried out for this parts of the application.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

Publication No

PCT/IL 99/00417

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9843084 A	01-10-1998	US 5858685 A AU 6570998 A	12-01-1999 20-10-1998
WO 9420127 A	15-09-1994	AU 6359494 A AU 6597998 A BR 9406652 A CA 2157510 A CN 1118572 A EP 0703783 A JP 8507525 T NZ 263050 A SG 49008 A	26-09-1994 02-07-1998 10-09-1996 15-09-1994 13-03-1996 03-04-1996 13-08-1996 24-11-1997 18-05-1998
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DE 19758400 A	01-07-1999	WO 9934824 A	15-07-1999
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WO 9519783 A	27-07-1995	US 5662907 A AU 1834095 A AU 4111999 A CA 2181920 A EP 0749315 A SG 49743 A	02-09-1997 08-08-1995 23-09-1999 27-07-1995 27-12-1996 15-06-1998

